DocuColor 2000 CSX Color Server

Customer Expectations Document for ECE

Software Version 2.0

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CSX2000 Color Server

Version 2.0

The purpose of this document is to provide additional information about the capabilities and potential limitations of the CSX2000 version 2.0 when connected to a DocuColor 2045 or DocuColor 2060. It is recommended that Version 2.0 be installed with the IOT system version 3.0 to take full advantage of new / enhanced engine features.

Key Operator Profile

To optimize the performance of DocuColor 2000 CSX Color Server, it is recommended that, at a minimum, the operators be skilled in the following areas:

Hardware	Pre-Press	Color Publishing Software
PCs	Job submission	Corel Draw 8.0 or higher
Macintosh	Trapping	Adobe PageMaker 6.5 or higher
Network Environments	Imposition	MS Office Suite 98
	PDF workflow	Adobe Acrobat 4.0 or higher
	Calibration	Macromedia FreeHand 8.0 or higher
	Color management	Adobe PhotoShop 5.0 or higher
	Color correction	Quark Xpress 4.0 or higher

Non-standard Paper Size Support

The DocuColor 2045CSX and 2060CSX system supports non-standard paper sizes. However, due to rounding and unit-conversions that occur in the client applications, RIP server, and printer, some mismatch may occur between the paper size entered at the application, and the paper size that must be entered at the printer. The operator may need to adjust the entered paper dimensions by up to 2.5 mm (0.1 in) in order for the printer to detect that the requested paper size has been loaded.

In addition, the printer interprets some paper sizes included in the PPD as non-standard sizes.

Variable Information

If a customer is successfully running a VPS (Variable Print Specification) workflow on another Creo configuration, i.e., DC40 or DC70/100/130, it will work similarly on the DocuColor 2045CSX and 2060CSX. The same Xerox infrastructure in place today will support existing applications on the DocuColor 2045/2060 CSX.

The DocuColor 2045/2060CSX also supports Xerox VIPP 2001(Variable data Intelligent PostScript Printware) when used in conjunction with the DesignMerge software application. The new version of Xerox VIPP 2001 provides enhanced Variable Information (VI) capabilities specifically for the DocuColor Series of printers that are not presently available for the Xerox monochrome and highlight color product families. Consequently, performance cannot be guaranteed for any applications authored with prior versions of Xerox VIPP. Alternate third party user interfaces, including the VIPP IDE (Interactive Development Environment), are not currently supported.

For important information regarding Variable Information (VI) application and printer-specific known issues and limitations, please refer to the DC2000 Series and applicable Variable Information solution Customer Expectations Document. The Variable Information Customer Expectations Document contains detailed information regarding application-specific operational parameters and performance criteria, and is an important part of the pre-sales process to ensure that expectations regarding solution capabilities are properly communicated to, and fully understood by the customer. A copy of this document may be obtained from your local Xerox Representative.

High Capacity Feeder and Stacker/Stacker-Stapler (HCF and HCS/HCSS) Support

The HCS does not support mixed paper size jobs. The HCSS does not support mixed paper size job stapling or staple limit checking. Maximum sheets to be stapled must conform to the following table in the job set-up. Exceeding these limits can result in damage to the stapler resulting in a service call.

Paper Weight	Coated	Uncoated
64 – 80 g/m^2	50	50
81 – 105 g/m^2	42	42
106 – 135 g/m^2	31	31
136 – 150 g/m^2	26	26
151 – 220 g/m^2	18	18
221 – 280 g/m^2	Can not be stapled	
Transparencies		

Note: Only valid HCS paper sizes are supported. A 16-372 fault may occur when using custom paper sizes that violate HCS paper size physical limitations. This fault is standard fault operation.

Microsoft NT License

Every CSX2000 server includes an "NT Fast Install" CD and an "Application Software" CD (CD#1 and CD#2). It also includes an individual NT server license number that is preprinted on the Microsoft NT OS Server Instruction Booklet. It is the responsibility of the customer to place the booklet and all software CDs in a secure but accessible area (the NT Fast Install CD, the Application CD and license number might be required when performing a "complete" CreoScitex software installation). The Xerox CSE would require the CDs and the NT license in case it is recommended to perform a full system software re-installation.

Note: If the license documentation is lost or misplaced, the customer will be required to purchase a replacement license at his or her own expense.

Network Specifications

The DocuColor 2000 CSX Color Server uses the following protocols and frame types:

Protocol Stack	Printing Services	Supported Frame Types	Platform
TCP/IP	LPR/LPD	Ethernet_II Token Ring	Windows /98/NT/2000/ME/XP Solaris 2.4+ SunOS 4.1.x Macintosh
AppleTalk	PAP	Ethernet SNAP (EtherTalk Phase 2 only)	Windows NT Macintosh
NetBEUI		Ethernet_II Token Ring	Windows /98/NT/2000/ME/XP
Novell IPX		Ethernet_II, 802.3, 802.2 Token Ring	Windows /98/NT/2000

Token Ring Enablement Kit

To enable the installation on a Token Ring network, an optional Token Ring kit must be purchased from Xerox and installed in the RIP. Ensure your Sales Representative or Analyst has defined these requirements if your network is Token Ring. Only the Token Ring RJ45 connector is supported. Do not use the DB9 connector.

Printing Services

The DocuColor 2000 CSX Color Server supports the following printing services:

- *LPD (Line Printer Daemon)– Allows printing in TCP/IP networks using an LPR client and supporting RFC 1179, the Berkeley LPR protocol. Supports direct socket interface via port 9100.*
- *PAP (Printer Access Protocol)– Allows printing in AppleTalk networks.*
- *NetBIOS printing and file sharing over TCP/IPand IPX.*
- *NFS file sharing*
- *Novell IPX/SPX NDS*

Client Specifications

Macintosh

- *G3 Power Macintosh or better is strongly recommended.*
- *Operating system: V9.2.1 or higher.*
- *Protocols: AppleTalk.*
- *Recommended memory: A minimum of 64 MB is recommended.*

PC

- *Required platform: PC platform capable of running supported operating system.*
- *Operating system: Windows 98/2000/ME/XP, Windows NT 4.x (Service Pack 6a or higher).*
- *Protocols: TCP/IP, NetBEUI.*
- *Recommended memory: Operating system dependent, e.g., Windows 98. 64 MB minimum to print.*

UNIX

- *A workstation with standard TCP/IP connectivity.*
- *TCP/IP printing software that conforms to RFC1179 (Berkeley lpd protocol).*

Toner Coverage information

Native pre-ripped images or graphics consisting of more than 90% ink coverage for each color separation resulting in a total toner coverage of greater than 360% must not be processed with GCR = 'None' option. Failure to adhere to this requirement can lead to uneven densities and/or image off-setting at the fuser. These will result in extended and excessive service calls. Overall, productivity may be impacted due to an increase in machine downtime.

For the remaining GCR options of "low", "medium (default)" and "high", there are no restrictions on total toner coverage for pre-ripped native files.

PPDs and Print Drivers

PPDs are provided for Windows /98/NT 4.x /2000/ME/XP and for Apple Macintosh. Although it is recommended to use MAC OS 9.2.1 or higher, it is recommended to use Apple LaserWriter 8.6.1 if you have MAC OS 8.51-8.x.x or LaserWriter 8.7 for MAC OS 9.0-9.x as the MAC printer driver. Unknown issues may arise if a MAC OS lower than 9.2.1 is used with the CSX2000 system. The LaserWriter 8.7 driver is included with the MAC OS disks and will not be included with the CSX2000 system CDs. The PC drivers are automatically installed when the printers are installed in the respective PC platforms (*Please refer to the user's manual for further installation information*).

Note: Version 2.0 has a new PPD identified as CSX2K2_0.PPD. Please ensure the new PPD is installed on MAC Clients and that all virtual-printers are updated on all clients accordingly.

Color Calibration Look-Up Tables

The color look-up tables included in version 1.0 were not optimal under industry standard calibration test patterns such GATF and others. Under version 1.1, these tables have been enhanced to take full advantage of DC2000 engine color gamut. In version 2.0, the tables have been further enhanced to correct some other issues discovered with the previous tables. A "Calibration Slider" utility has been implemented for those customers who would like to further manipulate the color tables offered by version 2.0.

Note: In some instances, documents RIPped using version 1.0 or version 1.1 and printed under version 2.0 will look different in terms of color saturation and color definition, i.e. Pantone colors. The workaround would be to use "Gradation Curves", "Pantone Spot Color Editor", or "Calibration Slider" to mimic the old curves and get similar results.

System Software Limitations

- *In certain occasions, there is no indication when some operations take place on relatively big jobs, falsely creating the impression that the system has crashed, i.e. archiving big jobs, duplicating big jobs, importing jobs, etc.*
- *The ICC profile names should not contain any spaces or the improper characters. Examples of improper characters include the following symbols: ! @ # $ % ^ & * ( ) - / ? > < ' " ; :] [{ } \.*
- *When creating a new file from merging post-ripped jobs, changing parameters that require a reRIP of the job are not allowed, i.e. changing from duplex to simplex, image quality, color emulation, imposition, etc.*
- *Occasionally, the print engine interprets some paper sizes included in the PPD as custom paper sizes. Some manipulation of the custom size setting at the RIP level may be necessary.*
- *No "scan back" functionality will be supported as a product feature.*
- *Job queue management from the Digital Press UI is functional only on jobs that have been scanned into the system. All other print management activities must be performed at the DocuColor 2000 CSX Color Server user interface panel.*
- *The DocuColor 2000 CSX Color Server can submit only one print job at a time to the Digital Press UI Job Queue.*
- *Jobs will be printed in the order submitted, from either the RIP or Scanner, unless manually reordered at the Digital Press UI.*
- *NT AppleTalk service fails to display the available MAC zones. Requires the de-installation and reinstallation of NT AppleTalk services in order to see the zones. It also requires the reinstallation of NT service pack 6 or 6a.*
- *The use of TIFF LZW compressed pictures within jobs is problematic. Use only non-compressed TIFF files.*
- *Additional commercially available software programs should not be loaded onto the CSX server. This will only limit the available disk space the RIP requires to operate efficiently.*

- *When imposing a perfect square image, i.e. 5x5 or 6x6, the outcome of HTT or HTH may be opposite of the desired outcome. The system can not distinguish if the image is "long edge" or "short edge".*
- *Regular clean up of the storage and image disks is strongly recommended to avoid future problems with disk fragmentation, which may cause slow downs in overall system performance. Procedures for clean up are included in the operator's manual.*
- *In some instances, the RIP will fail to process a job with no alerts or GUI messages. This can happen with any particular problems with the file being processed. To obtain specific job processing information, the operator should use the "Job History" menu selection by pressing the mouse right button key in the storage folder.*
- *There are no constraints on the Macintosh or Windows 98 regarding the paperweight and the number of pages that can be stapled. The PPD allows the options to be selected, and once the job arrives at the DFE it fails. If the staple position is specified from the PPD and the job fails in the Process queue, evaluate if the job violates any of the constraints associated with the HCSS.*
- *Landscape jobs have Portrait Staple Options available in the PPD and Portrait jobs have Landscape Staple Options available in the PPD. Sending a job with the opposite image orientation and Staple position option selected causes the job to be printed and stapled correctly, but the image is cropped. The job image orientation should dictate which staple positions options are selected. For example, if the image orientation is Portrait, only Portrait staple positions should be selected (within Page Setup, Paper Size).*
- *High Capacity Stacker (HCS) and the High Capacity Stacker Stapler (HCSS) modules are not installable options on the PPD at this time. These options will always be available in the PPD although the finishing device is not installed.*
- *A maximum of five client station users can concurrently mount the shared volume of the DFE.*
- *PC Font Downloading requires a utility purchased from a third party vendor.*
- *Banner page for Novell is not supported.*
- *Job batching is limited to 4000 cumulative original pages in a "batched set of jobs".*
- *Pantone Blends consisting of two or more Pantone colors will fail in the Process Queue.*
- *Use of the Admin page with slip-sheets and stapling is not supported.*
- *Imposition using "Fit to Page" with Admin page causes Admin page image scaling to change.*
- *Paper attributes settings in the default virtual printers are not always retained.*
- *Transparencies are always delivered to the HCSS top tray.*
- *Mixed paper size jobs (including those created in applications) are not supported.*

- *Job pages cannot be re-ordered in Job Preview & Editor Thumbnails.*
- *Imposition does not consider the Duplex HTH and HTT options in Job Parameters. Jobs must be positioned in the application to reflect the desired output.*
- *Job names can contain up to 40 characters. When the name is longer than 40 characters, the system will present only the last 40 characters of the job name.*
- *CPSI 3015 and PDF v1.4 is not supported. Support of Acrobat v5.0 is limited to print submission from the application.*
- *Illustrator v9.x and 10.x application functionality, such as transparent color, which is enabled though CPSI 3015 is not supported.*
- *Variable EPS rotated Adobe Illustrator images from Darwin may not print.*

For further information and workarounds, please refer to the official release notes for version 2.0 for DocuColor 2000 CSX Color Server.

Environmental and Electrical Requirements

The DocuColor 2000 CSX Color Server requires three 115 VAC 15 Amp 60 Hz/ 220 VAC 10 Amp 50 Hz outlets on one dedicated circuit: One outlet each for the UI, server, and densitometer.

Space Requirements

The unpacked dimensions of the DocuColor 2000 CSX Color Server are 12.2 inches (31 cm) in width, 21.3 inches (54 cm) in depth, and 23.6 inches (60 cm) in height. It has a weight of 80 pounds (36 kg).

There is no stand associated with this solution. The customer must provide a work surface for the monitor, keyboard, and mouse. The server itself could stand on the floor, or on a work surface. However, be attentive to the weight of the server so as to avoid physical injury if lifting.

Please refer to the base system Customer Expectations Setting guidelines for calculation instructions to determine the space that is required around the system in its various configurations.

All standard Xerox space requirements apply to this installation; including overhead, shared aisle or hallway, and operator space.

Responsibility Matrix

Action	Customer	Xerox
Ensure adequate space and power to configure the RIP server to the DocuColor 2045/2060 within 12 feet.	X	
Unpack system / components		X
Install server hardware		X
Connect all System Components prior to powering up the system		X
Install the printer description files, utilities, and printer drivers on client PCs.	X	
Ensure network configuration	X	
Confirm network integrity	X	
Acquire and install client workstation network hardware and software	X	
Monitor and Adjust calibration for color matching of color management systems	X	
Load any additional fonts	X	
Procure BNC transceiver for network connection (if required)	X	
Set up and administer client workstations	X	
Provide Helpline Support (when FSMA is purchased)		X[1]
Provide spared parts (when FSMA is purchased)		X[1]
Provide service (when FSMA is purchased)		X[1]
Install all software options designated as customer installable	X	
Secure all system software CDs including NT license in a secure but accessible area	X	

[1] Xerox responsibility when a Field Service Maintenance Agreement (FSMA) is purchased. If FSMA is not purchased, this action becomes a customer responsibility

Customer Expectations Agreement

Check off the modules that will be part of this install and for which expectations have been set:

_____ DocuColor 2045 Digital Press
_____ DocuColor 2060 Digital Press
_____ Scanner and Duplexing Automatic Document Feeder
_____ CSX RIP _____ Optional Token Ring Enablement Kit
_____ Tray 4
_____ High Capacity Stacker
_____ High Capacity Stacker/Stapler

Primary Customer Applications:

_____
_____
_____

Special considerations or performance limitations identified by Xerox and agreed to by the customer:

_____
_____
_____

Upending and/or Stair Climbing Required and Reviewed:

Yes_____Not Required _____

I have reviewed and understand the product specifications for each of the modules that will be installed: *(Signatures Required)*

Customer _____

Xerox Sales Representative _____

Xerox Analyst Representative _____

Xerox Service Representative _____

I have viewed a representative output sample from the DocuColor 2045/2060 and the image quality is acceptable for the needs of my organization:
(Signature Required if DC2060 or DC2045 is included with Order)

Customer _____